

# MAS223 Statistical Modelling and Inference

Dr Nic Freeman

School of Mathematics and Statistics, University of Sheffield

Autumn Semester, 2015

# The course

The autumn semester material is in four sections:

- Univariate distribution theory
- Multivariate distribution theory
- Likelihood: theory
- Likelihood: case studies

The first half of course builds on the Level 1 Core (MAS110, MAS111) and the main probability and statistics module (MAS113) to provide the foundations for the second half, and for further courses in probability and statistics.

# Course material

- Lectures will use slides. There are typed lectures notes covering the same content.
- Lectures will also contain worked examples - you should make your own lecture notes for these.
- A few handouts

Available from

<http://nicfreeman.staff.shef.ac.uk/MAS223/>

# Lectures and tutorials

The lectures are on

- Monday at 12, in Lecture Theatre 1, Dainton Building
- Monday at 3, in Lecture Theatre 1, Hicks Building

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Tutorials are at one of two different times (Tuesday 12, Thursday 1) depending on which group you are in.

Tutorials are in weeks 2,4,6,9 and 11. Please make sure to check which group you are in.

## Problem sets

- Exercises suggested in lectures, weeks 2,4,6,9,11
- Then, you have a tutorial during that week
- Assignments (subset of exercises) set via email, Thursdays weeks 2,4,6,9,11
- Hand in assignments to the dropbox next to F10, by Tuesday 4pm the week after; 3,5,8,10,12

Marked work will be returned in the following tutorial. Please make sure to use the right cover sheet for your tutorial group!

# Assessment

Exam at the end of the module, plus a project based on the second semester material.

## Contact details

Lecturer: Dr Nic Freeman, office G18, Hicks Building

Email: `n.p.freeman@shef.ac.uk`

Course web page:

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There is also a discussion board available on MOLE: use this if the answer to your question is likely to be of interest to other students on the course.